

State of California
AIR RESOURCES BOARD

Component Executive Order C-U-06-028A
Centro, Inc. – Fuel Tank

WHEREAS, Pursuant to California Health and Safety Code, sections 39600, 39601 and 43013, the California Air Resources Board (ARB) has established a certification process for evaporative emission system components designed to control gasoline emissions from small off-road engines, as described in title 13, California Code of Regulations (13 CCR), section 2767.1;

WHEREAS, Pursuant to California Health and Safety Code, section 43013, ARB has established criteria and test procedures for determining the compliance of evaporative emission system components with the design requirements in 13 CCR, section 2754;

WHEREAS, Pursuant to 13 CCR, section 2767.1, ARB Executive Officer may issue an Executive Order if he determines that the small off-road engine evaporative emission system component conforms to the applicable performance requirements set forth in 13 CCR, section 2754;

WHEREAS, Pursuant to Health and Safety Code, sections 39515 and 39516, ARB Executive Officer issued Executive Order G-05-008 delegating to the Chief of ARB Monitoring and Laboratory Division (MLD) the authority to certify small off-road engine evaporative system components;

WHEREAS, On October 3, 2006, Centro Inc. submitted an application for certification as an innovative product under 13 CCR, section 2767(c) for "Q" Family molded fuel tanks; and

WHEREAS, On April 29, 2009, Cento Inc. submitted a request and supporting documentation for an amendment to allow natural and pigmented non-barrier (XLPE) material be used for "Q" Family molded fuel tanks.

NOW, THEREFORE, I, William V. Loscutoff, Chief of the MLD, find that the Centro, Inc. "Q" Family fuel tanks produced following the process and material specifications set out in Attachment A constitute an innovative fuel tank pursuant to 13 CCR, section 2767(c). Fuel tanks produced following Centro Inc.'s process and material specifications with natural and pigmented non-barrier (XLPE) material are hereby deemed equivalent to those tanks listed in 13 CCR, section 2752(a)(5). This finding is based on Centro Inc.'s demonstration that such tanks have a permeation rate substantially lower than 1.5 grams per square meter per day set forth in 13 CCR, section 2754, when tested at a constant temperature of 40° C pursuant to alternative test procedure ATP-1-06-001 using an approved test fuel of CE10.

IT IS ORDERED AND RESOLVED that all Centro, Inc. "Q" Family fuel tanks with minimum average barrier thicknesses equal to or greater than the values listed in Table 1 are certified for use in small off-road equipment.

IT IS FURTHER ORDERED that by using the alternative test procedure mentioned above, a limitation is placed on the design requirements set forth in 13 CCR, section 2754(b), for fuel tanks. The limitation listed in Table 1 shall be placed on the value determined by ATP-1-06-001, section 14.

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Table 1
Specifications for Centro, Inc. "Q" Family Fuel Tank

Minimum Average Barrier Thickness (mm) 3 Layers			ATP-1-06-001 Limitation (g/m ² /day)
1 st	2 nd (Barrier Material)	3 rd	
1.0	0.5	1.0	0.75

IT IS FURTHER ORDERED that Centro, Inc. shall provide a warranty to equipment manufacturers purchasing the Centro, Inc. "Q" Family fuel tanks. The warranty must conform to the requirements of 13 CCR, section 2760.

IT IS FURTHER ORDERED that the certified Centro, Inc. "Q" Family fuel tank shall be installed in accordance with the manufacturer's installation and use instructions. A copy of this Executive Order and fuel tank installation and use instructions shall be provided to manufacturers purchasing Centro, Inc. "Q" Family fuel tanks for installation on small off-road engines and equipment introduced into commerce in California.


IT IS FURTHER ORDERED that fuel tanks listed in Table 1 shall be clearly identified by a permanent identification that allows ARB to identify manufacturer's name, executive order number, and model number.

IT IS FURTHER ORDERED that any modification of Centro Inc.'s approved process and material specifications for producing a "Q" Family fuel tank hereby are prohibited. Any alteration or modification of the process or material specifications set out in Attachment A of this Executive Order will require the manufacturer to apply for a new Executive Order.

IT IS FURTHER ORDERED that the Centro, Inc. "Q" Family fuel tank shall be compatible with fuels in common use in California at the time of certification and any modifications to comply with future California fuel requirements shall be approved in writing by the Executive Officer or Executive Officer's delegate.

IT IS FURTHER ORDERED that the component certification of the Centro, Inc. "Q" Family fuel tank can be referenced in certification applications for small off-road engines and equipment that use small off-road engines unless the Executive Officer finds that the Centro, Inc. "Q" Family fuel tank no longer meets the performance requirements set forth in 113 CCR, section 2754, when tested pursuant to 13 CCR, section 2765.

Executed at Sacramento, California, this 8th day of June, 2009.


William V. Loscutoff, Chief
Monitoring and Laboratory Division

Centro, Inc.

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